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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/647,332		08/26/2003	Kentaro Tomioka	04329.3119	3534
22852	7590	06/14/2005		EXAMINER	
FINNEGA	N, HEN	DERSON, FAR	PAPE, ZACHARY		
LLP 901 NEW YORK AVENUE, NW				ART UNIT	PAPER NUMBER
	WASHINGTON, DC 20001-4413			2835	
				DATE MAIL ED: 06/14/200	•

Please find below and/or attached an Office communication concerning this application or proceeding.

		A					
	Application No.	Applicant(s)					
Office Action Summer	10/647,332	TOMIOKA ET AL.					
Office Action Summary	Examiner	Art Unit					
	Zachary M. Pape	2835					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address -					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tin within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 13 M	ay 2004.						
2a) ☐ This action is FINAL . 2b) ☒ This	action is non-final.						
3) Since this application is in condition for allowar	·						
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.					
Disposition of Claims		•					
4) Claim(s) 1-22 is/are pending in the application.							
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>9-22</u> is/are allowed.							
6)⊠ Claim(s) <u>1 and 2</u> is/are rejected.							
7) Claim(s) 3-8 is/are objected to.							
8) Claim(s) are subject to restriction and/or	r election requirement.						
Application Papers							
9) The specification is objected to by the Examine	r.						
10)⊠ The drawing(s) filed on 13 May 2004 is/are: a)	⊠ accepted or b)⊡ objected to l	by the Examiner.					
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correct	- · · · · · · · · · · · · · · · · · · ·						
11) ☐ The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign a)⊠ All b)□ Some * c)□ None of:)-(d) or (f).					
1. Certified copies of the priority document							
2. Certified copies of the priority documents	• •						
 Copies of the certified copies of the prior application from the International Bureau 	·	ed in this National Stage					
* See the attached detailed Office action for a list	• • • • • • • • • • • • • • • • • • • •	ed.					
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Attachment(s)	" 	(DTO 440)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail D						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 11/12/2004,8/26/03.		Patent Application (PTO-152)					
C. Datast and Tradamady Office							

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-2 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakagawa et al. (US 6,519,148) in view of Whiting (US 2,477,533). With respect to claim 1, Nakagawa et al. teaches an electronic apparatus comprising: a housing (Comprising 1, and 2) having a heat-generating component (4); a circulating path (Illustrated by tube 12) through which liquid coolant for cooling the heat-generating component flows (Column 4, Line 45). Nakagawa et al. fails to teach that the circulating path has a first connecting end and a second connecting end connected to the first connecting end, and a coolant-absorbent member provided to a junction between the first connecting end and the second connecting end. Whiting teaches the use of first connecting end (25) and a second connecting end (14) connected to the first connecting end (As illustrated in Fig 1) with a coolant-absorbent member (12, the gasket by nature will absorb at least a little coolant) provided to a junction between the first connecting end and the second connecting end. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the connecting and coolantabsorbent means of Whiting with the housing and circulation path of Nakagawa et al. to provide a superior connecting means between two connecting ends by providing a joint

Art Unit: 2835

which compensates automatically for misalignment of the mating pipe sections (Whiting, Column 1, Lines 29-45).

With respect to claim 2, Nakagawa et al. further teaches that the circulating path includes a heat-receiving portion (10) which receives heat from the heat-generating component (4), a heat-radiating portion (2) which radiates the heat of the heat-generating component (Column 4, Lines 25-26), and a pump (11) which circulates the liquid coolant between the heat-receiving portion and the heat-radiating portion.

Allowable Subject Matter

2. Claims 9-22 are allowed.

The following is an examiner's statement of reasons for allowance:

The allowability resides in the overall structure of the device as recited in independent claims 9, 17, and 21 and at least in part because claims 9, 17, and 21 recite: "a detecting member which detects whether the member is absorbing the liquid coolant".

The aforementioned limitations in combination with all remaining limitations of claims 9, 17, and 21 are believed to render said claims 9, 17, and 21 and all claims dependent therefrom patentable over the art of record.

Claims 3-8 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Application/Control Number: 10/647,332

Art Unit: 2835

The following is a statement of reasons for the indication of allowable subject matter:

The allowability resides in the overall structure of the device as recited in dependent claim 3 and at least in part because claim 3 recites, "and in which the second connecting end is interposed between the first connecting end and the outer wall, and the member is interposed between the second connecting end and the outer wall". The Whiting reference clearly teaches the limitations in claims 1 and 2, and further teaches an outer wall (11) surrounding the first connecting end (25) but fails to teach that the second connecting end (14) is interposed between the first connecting end (25) and the outer wall (11).

The aforementioned limitations in combination with all remaining limitations of claim 3 are believed to render said claim 3 and all claims dependent therefrom patentable over the art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Zachary M. Pape whose telephone number is 571-272-

Application/Control Number: 10/647,332

Art Unit: 2835

2201. The examiner can normally be reached on Mon. - Thur. & every other Fri.

(8:00am - 5:00pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynn Feild can be reached at 571-272-2092. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ZMP

LYNN FEILD

Page 5

SUPERVISORY OF

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